



HOWARD COUNTY HEALTH DEPARTMENT

57467

DATE 11/24/15

W5

Received From

JONES DRILLING

PHONE #

For Geo Thermal Permit: 7462 First League

CASH
 CHECK

NO. 2240

One hundred sixty ⁰⁰/₁₀₀

Dollars

\$ 160 00

Received By

Marian Curry

C1 27100

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-5 ON ALL CARDS)

COUNTY NUMBER

DATE RECEIVED MM DD YY 02 29 16

DATE WELL COMPLETED MM DD YY 7 18 16

DEPTH OF WELL 320 FT

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-15-01822

OWNER Botzum KEYS WELL SITE ADDRESS 7462 First League TOWN Columbia SUBDIVISION Village Kings Containment SECTION LOT 200

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for dirt, soft brown overburden, and various rock layers.

GROUTING RECORD form with fields for YES/NO, CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS (20), NO. OF POUNDS (1000), GALLONS OF WATER (400), DEPTH OF GROUT SEAL.

CASING RECORD form with fields for MAIN CASING TYPE, Nominal diameter, Total depth, and OTHER CASING details.

SCREEN RECORD form with fields for screen type or open hole, and screen diameter/depth.

DEPTH (nearest ft.) table with columns 1-2, 8-9, 11, 15, 17, 21, 23-24, 26, 30, 32, 36, 38-39, 41, 45, 47, 51.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: YES (Y) NO (N)

CIRCLE APPROPRIATE LETTER: A (Well abandoned), E (Electric log), P (Test well converted).

DRILLERS LIC. NO.: MWD 304, Signature: David Kelly, LIC. NO.: JW D 326, Signature: Jason Moun...

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST form with fields for HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED.

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

LATITUDE 39.168192, LONGITUDE 76.876315, (DEFAULT COORD. WGS 84), NOTES: As per plat, includes a site diagram with well location and coordinates.

B 1 27248 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type STATE PERMIT NUMBER HO - 15 - 0182
 1 2 3 4 5 6 70 79 fill in this form completely

Date Received (APA) _____
OWNER INFORMATION
 8 MM DD YY 13
Batzum Keys
 15 Last Name Owner First Name 34
7462 First League
 36 Street or RFD 55
Colombia MD 21046
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
 8 COUNTY 21
Village Kings Contrivance
 23 SUBDIVISION 42
 SECTION 44 46 LOT 200 48 50
Colombia
 52 NEAREST TOWN 71

DRILLER INFORMATION
David Kelly MW D 304
 76 Driller's Name License No. 81
Jonas Well Drilling
 Firm Name
3700 Rush Rd Jarrettsville MD 21044
 Address
David Kelly 11-18-15
 Signature Date

B 4 SOURCES OF DRILLING WATER
 1. potable well
 2. _____
 3. _____
7462 First League
 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N
 WEST W EAST E
 SOUTH S
 34 25 37
 DISTANCE FROM ROAD FT
 ENTER FT OR MI 38 39
 TAX MAP: 0042 BLK: 7 PARCEL 0062

B 2 WELL INFORMATION
 1 2 APPROX. PUMPING RATE (GAL. PER MIN.) 8 12
0
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20
0

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL 2 holes

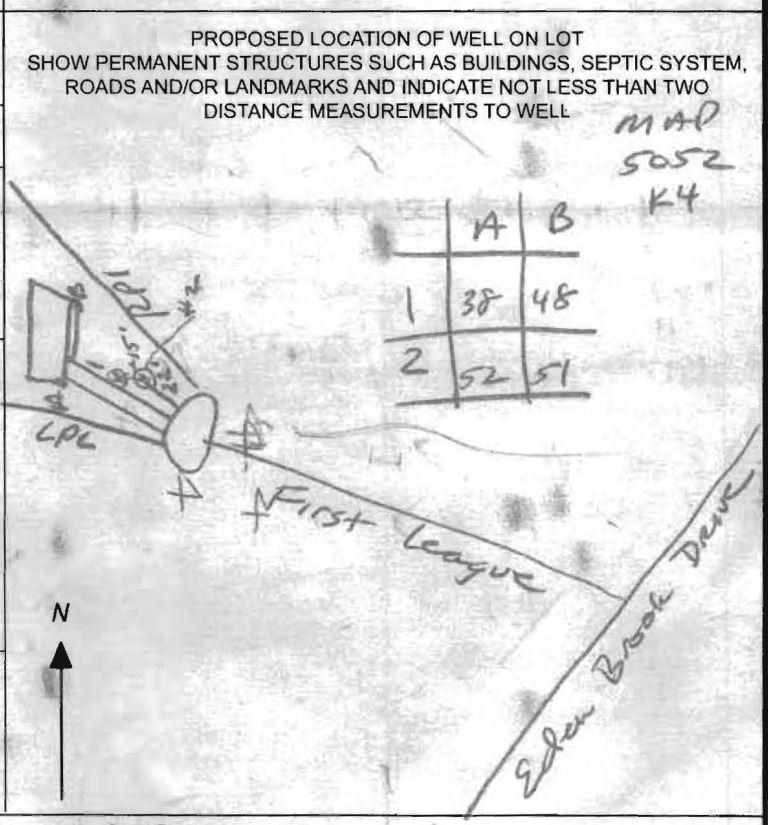
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard 13
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED 11/30/2015
 43 MM DD YY 48 CO SIGNATURE R. R. R. 11/30/16 EXP. DATE

APPROXIMATE DEPTH OF WELL 320 FEET
 24 28
 APPROXIMATE DIAMETER OF WELL 6 INCH
 NEAREST INCH

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 30 AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)
 37 CABLE REVerse-ROTary DRive-POINT
 other _____

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 THIS WELL WILL DEEPEM AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER _____ G _____
 PERMIT No. HO - 15 - 0182
 70 71 72 73 74 75 76 77 78 79

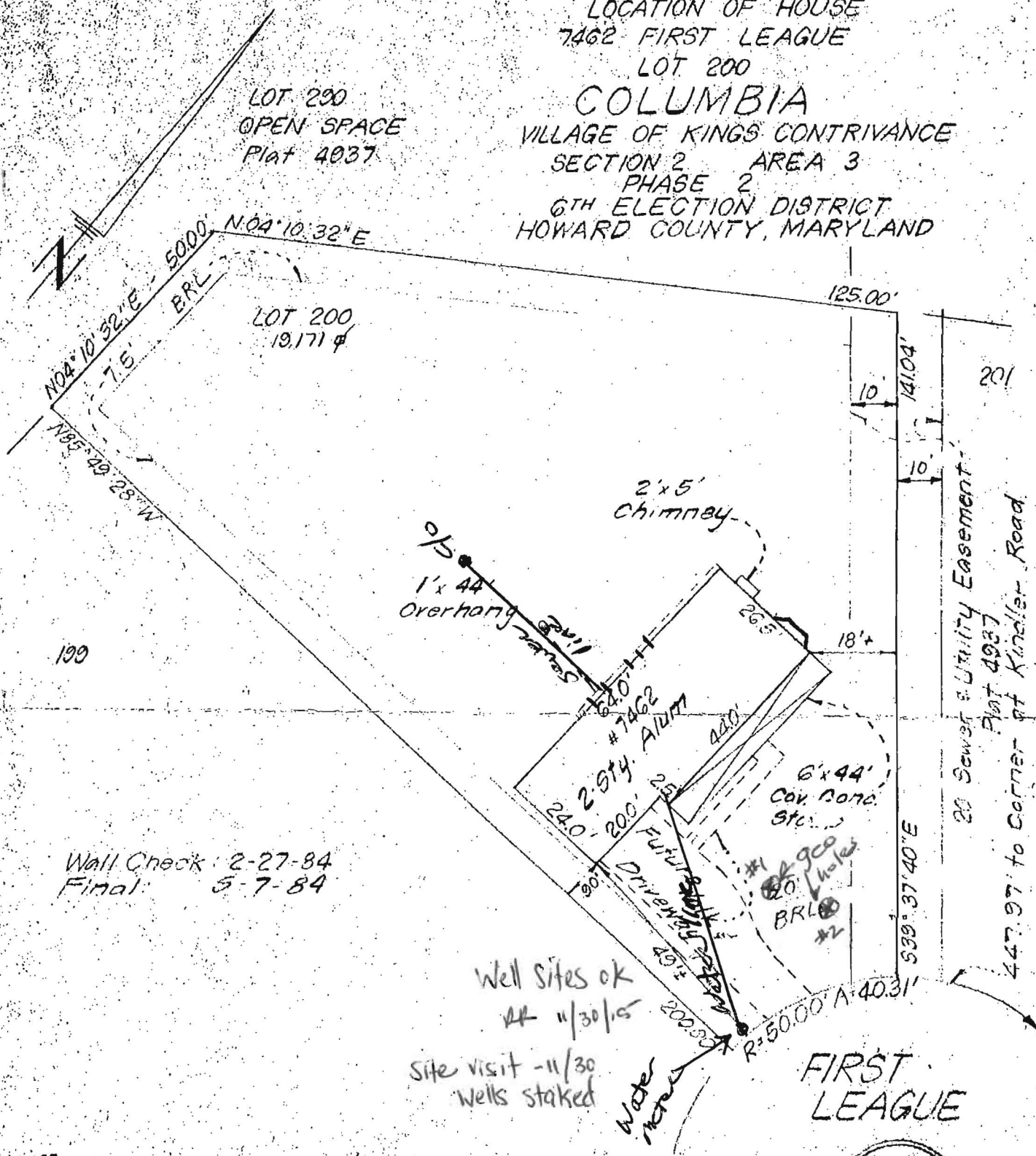


SPECIAL CONDITIONS wells must be grouted from bottom to top.

LOCATION OF HOUSE
 7462 FIRST LEAGUE
 LOT 200
COLUMBIA
 VILLAGE OF KINGS CONTRIVANCE
 SECTION 2 AREA 3
 PHASE 2
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

LOT 290
 OPEN SPACE
 Plat 4937

LOT 200
 19,171 sq ft



Wall Check: 2-27-84
 Final: 5-7-84

Well Sites ok
 at 11/30/85

Site visit - 11/30
 Wells staked

FIRST LEAGUE

83-095

SURVEYOR'S CERTIFICATE

I hereby certify that the position of all existing improvements on the above described property have been carefully established by a transit-tape survey and that unless otherwise shown, there are no encroachments.

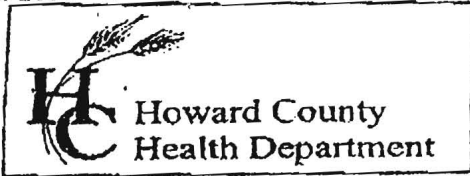
Donald P. Sackett #6059

CLARK • FINEFROCK & SACKETT

ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MD. 20904
 TEL. NO 593-3400

REFERENCE	DRAWN BY BAF	CHECKED BY KWC
Plat 4937	DATE 5-7-84	FILE NO.
	SCALE 1" = 30'	222-K

BRUNING 40-22-36166



7178 Columbia Gateway Drive, Columbia MD 21046
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location: 7462 First League
 Subdivision/Property Name Lot# Road Name

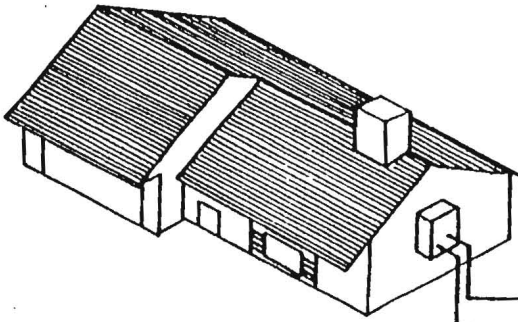
The well site has been staked by _____
 (professional land surveyor or company employing professional land surveyors)
 on _____ (date) and does not require a site inspection.

Flagged 11/19/10
 The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

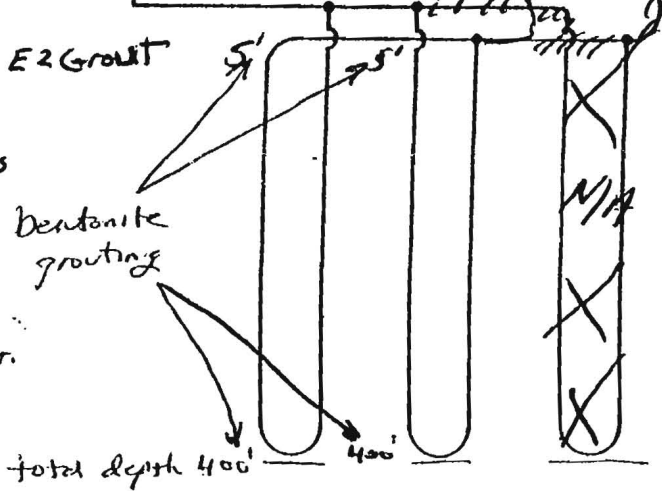
Revised 3/11/05

Driller: Jones Well Drilling
 contact: David Kelly
 410-692-6981



bury depth 5' below grade

Wyo-Ben bentonite-E2 GROUT
 grout (50 lb. bags)
 mixed with 24 gallons
 of water per
 manufacturer specs
 yields 27 gal slurry
 with a 0.42 btu-ft/hr.
 thermal conductivity



Earth Coil Type: Vertical - Single U-Bend
 Water Flow: Parallel
 Pipe Sizes: 1 1/4" double Loop
 Bore Lengths: 320' x 2 holes (640' vertical bore)
 Pipe Lengths: 640' x 2 (1280' vertical pipe)

FIGURE 4.5: Parallel Vertical Ground Heat Exchanger

